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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Papers: Effects of ensemble-TCP**

Lars Eggert, John Heidemann, Joe Touch

January 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 1Full text available: [pdf\(1.57 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

TCP currently recalculates the state of each connection from a fixed set of initial parameters; this recalculation occurs over several round trips, during which the connection can be less than efficient. TCP control block sharing is a technique for reusing information among connections in series and aggregating it among connections in parallel. This paper explores the design space of a modified TCP stack that utilizes these two ideas, and one possible design (E-TCP) is presented in detail. E-TCP ...

2 FIRE: flexible Intra-AS routing environment

Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condell, Isidro Castañeyra

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4Full text available: [pdf\(107.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current routing protocols are monolithic, specifying the algorithm used to construct forwarding tables, the metric used by the algorithm (generally some form of hop-count), and the protocol used to distribute these metrics as an integrated package. The Flexible Intra-AS Routing Environment (FIRE) is a link-state, intra-domain routing protocol that decouples these components. FIRE supports run-time-programmable algorithms and metrics over a secure link-state distribution protocol. By allow ...

3 Explicit allocation of best-effort packet delivery service

David D. Clark, Wenjia Fang

August 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 4Full text available: [pdf\(208.85 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Internet protocol, TCP, packet networks, quality of service, rate control

4 Improving and managing multimedia performance over TCP-IP nets

Nathan J. Muller

December 1998 **International Journal of Network Management**, Volume 8 Issue 6

Full text available:  pdf(338.34 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The TCP-IP-based Internet and, consequently corporate Intranets, were not designed for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.



5 Low power error control for wireless links

Paul Lettieri, Christina Fragouli, Mani B. Srivastava


September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(1.97 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 An integrated congestion management architecture for Internet hosts

Hari Balakrishnan, Hariharan S. Rahul, Srinivasan Seshan

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available:  pdf(1.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a novel framework for managing network congestion from an end-to-end perspective. Our work is motivated by trends in traffic patterns that threaten the long-term stability of the Internet. These trends include the use of multiple independent concurrent flows by Web applications and the increasing use of transport protocols and applications that do not adapt to congestion. We present an end-system architecture centered around a Congestion Manager (CM) that ensures proper conge ...

7 Understanding and improving TCP performance over networks with minimum rate guarantees

Wu-chang Feng, Dilip D. Kandlur, Debanjan Saha, Kang G. Shin

April 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 2

Full text available:  pdf(258.07 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: TCP, differentiated services, integrated services, queue management

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